

REMARKS

Claims 1-68 are now pending in the application. Claims 69-104 have been withdrawn and are cancelled. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

REJECTION UNDER 35 U.S.C. § 102

Claims 1-4, 9-12, 17-20, 25-28, 33-36, 41-44, 49-52, 57-62, 67, and 68 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Good et al. (U.S. Pat. No. 5,377,058). This rejection is respectfully traversed.

With respect to Claim 1, Good et al. do not show, teach or suggest a measurement circuit adapted to determine a first amplitude of the pulse in a time domain at a first predetermined time and one or more second amplitudes of the pulse in the time domain at respective second predetermined times.

In Good et al., the signals are sampled after a band pass filter. In Good et al., “the amplitude detectors average the outputs of the filters to produce the instantaneous amplitude values which are the running averages for amplitudes of the first and third harmonics.” Good et al. at Col. 8, lines 3-6. Therefore, **the amplitudes that are measured in Good et al. are first and third harmonics in the frequency domain and not averages in the time domain as claimed.**

Therefore, Claim 1 is allowable over the prior art for at least this reason. Claims 9, 17, 25, 33, 41, 49 and 59 are allowable for at least similar reasons. Claims 2, 10, 18, 26, 34, 42, 50, 57-58, 60 and 67-68 are directly or indirectly dependent upon

Claims 9, 17, 25, 33, 41, 49 and 59, respectively, and are therefore allowable for at least similar reasons.

With respect to Claim 3, Good et al. does not show, teach or suggest that the function of the first and second amplitudes is a ratio of the first amplitude to a sum of at least two second amplitudes.

The Examiner states that Good et al. provide a function of a first and second amplitude that is a ratio of the first amplitude to a sum of the second amplitudes, where the second amplitudes consist of only one amplitude.

Therefore, Claim 3 is allowable over the prior art for at least this reason.

Claims 4, 11-12, 19-20, 27-28, 35-36, 43-44, 51-52, and 61-62 are allowable for at least similar reasons as Claim 3.

ALLOWABLE SUBJECT MATTER

The Examiner states that claims 5-8, 13-16, 21-24, 29-32, 37-40, 45-48, 53-56, and 63-66 would be allowable if rewritten in independent form. Accordingly, Applicant has amended claims 5-8, 13-16, 21-24, 29-32, 37-40, 45-48, 53-56, and 63-66 to include the limitations of the base claim and any intervening claims. Therefore, claims 5-8, 13-16, 21-24, 29-32, 37-40, 45-48, 53-56, and 63-66 are now allowable.

OTHER CLAIM AMENDMENTS

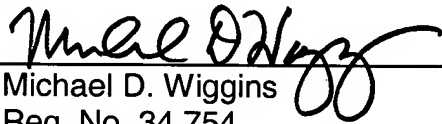
As requested by the Examiner, claims 7-8, 15-16, 23-24, 31-32, 39-40, 47-48, 55-56, and 65-66 have been amended to define the variable "n" as an integer greater than one. The foregoing amendment is not a narrowing amendment.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: August 2, 2005

By: 
Michael D. Wiggins
Reg. No. 34,754

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600

MDW/sls